

REMARKS

This is intended as a full and complete response to the Office Action dated June 25, 2004, having a shortened statutory period for response set to expire on September 25, 2004. Claims 1-42 are pending in the application. Please reconsider the claims pending in the application for reasons discussed below.

Drawing and Specification Objections

Replacement drawings and amendments to the specification have been submitted to correct problems identified by the Examiner therein. FIG. 1 has been amended to include inadvertently omitted connection lines between elements. Amendments to the Specification have been made to make reference numbers in the Specification match reference numbers in the drawings, where the Examiner had noted previous inconsistencies.

Claim Rejections 35 USC 102

Claims 1-8, 10-15, 17-24, 27, 29-30, 32-34 and 37-41 stand rejected under 35 U.S.C. § 102(b) as being anticipated by *Sumi* et al., (US 5,881,288, hereinafter *Sumi*).

To anticipate a claim, the cited reference must teach every element of a claim. MPEP § 2131. In fact, "the identical invention must be shown in as complete detail as is contained in the...claim." *Richardson v. Suzuki Motor Co.*, 868 F.2d 126, 1236 (Fed. Cir. 1989). Anticipation of a claim also requires that the elements must be arranged as required by the claim. MPEP § 2131.

The system, methods, and medium claimed in independent claims 1, 6, 17, and 29, are each directed to anticipating and visibly highlighting whether one or more variables involved in a portion of program being debugged will be used or changed in subsequent execution of the program code. Each of these claims recites displaying, at a time the program is halted at a next executable statement, a visible indication as to whether a current value of one or more variables will be changed and/or used in subsequent execution of the program. These limitations and/or elements are not taught in *Sumi*.

Regarding claim 1, the Examiner cites portions of *Sumi* (col. 23, lines 51-60) as teaching "displaying on the output device the at least one variable in a manner that visually indicates an executable status of the at least one variable, wherein the

executable status is indicative of at least one of a use and change of the current value during subsequent execution of the program being debugged.” Applicants respectfully submit, however, that the cited portions only refer to an “operation-possible variable display unit” which provides an indication of variables that may be referenced or set via a user command input via a command line (see col. 23, lines 25-41) by determining if such variables have been allocated resources (e.g., registers). If no resources have been allocated to such a variable, the debugger will not be able to retrieve a value to reference or set (change) a value of the variable (see col. 22, lines 30-51). In other words, variables that may be viewed and/or modified by the user via the debugger are identified, not variables that will be used and/or changed by subsequent program execution, as claimed.

Regarding claims 6, 17, and 29, the Examiner cites portions of *Sumi* as teaching determining at least one of a first and second executable status of a variable (FIG. 18A S76 & S79, col. 6, lines 56-62, col. 11, lines 47-52, col. 15, lines 27-36, col. 18, lines 25-35, col. 23, lines 25-41 and 51-60, and col. 27, lines 30-36) and visually indicating the executable status of the variable at the current point of execution (FIGs. 6A, 5D, and 9A, and col. 15, lines 32-49), as claimed. Applicants respectfully submit, however, that the cited portions do not teach these elements, but rather teach different types of operations, such as determining whether variables have been replaced during optimization operations or whether resources have been allocated to a variable a user wishes to view or change (as described above) via a debug command. It should be noted that steps 75 and 76 of FIG. 18A of *Sumi* refer to such requested operations (refer/view or set/change) related to a variable entered by a user via a command line, not the executable status of a variable, as claimed.

Accordingly, Applicants submit that claims 1, 6, 17, and 29 are patentable over *Sumi* and request withdrawal of this rejection with respect to these claims. Claims 2-5, 7-16, 18-28, and 30-42, each depend directly or indirectly from claims 1, 6, 17, or 29 and, as such, contain the same limitations thereof. Accordingly, Applicant submits that these claims are also patentable over *Sumi* and request withdrawal of this rejection with respect to these claims, as well.

Claim Rejections 35 USC 103

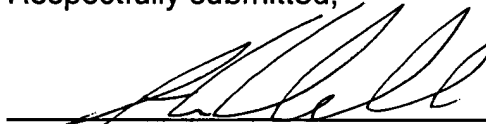
Claims 9, 25-26, 31, 35-36 and 42 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over *Sumi* as applied to claims 6, 17 and 29 above, and further in view of *Miyata et al.* (US 5,165,036). Claims 16, 28 and 42 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over *Sumi et al.* as applied to claims 6, 17 and 29 (respectively) above, and further in view of *Bates et al.* (US 6,658,649). However, Applicants submit that claims 6, 17, and 29, from which these claims depend are patentable over *Sumi* for the reasons described above. Accordingly, Applicants request withdrawal of this rejection.

Conclusion

The secondary references made of record are noted. However, it is believed that the secondary references are no more pertinent to the Applicant's disclosure than the primary references cited in the office action. Therefore, Applicant believes that a detailed discussion of the secondary references is not necessary for a full and complete response to this office action.

Having addressed all issues set out in the office action, Applicant respectfully submits that the claims are in condition for allowance and respectfully request that the claims be allowed.

Respectfully submitted,



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IN THE DRAWINGS:

The attached drawing sheet includes changes to FIG. 1. This sheet, which includes FIG. 1, replaces the original sheet.

Attachment: Replacement Sheets